



# SEQUENCE LISTING

<110> Novo Nordisk A/S  
Schering Aktiengesellschaft  
Grondahl, Christian  
Vissing, Henrik  
Wahl, Philip

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Glu Thr Thr Asn Ser Met Val Glu Ser Ile Lys His Cys Ile Val Leu  
 165 170 175

Leu Gln Ile Ala Lys Ser Thr Ile Asn Pro Val Asp Ala Ile Tyr Gln  
180 185 190

Pro Ser Pro Leu Glu Pro Val Ile Ser Thr Met Pro Ser Gln Thr Val  
195 200 205

Leu Pro Pro Glu Pro Val Gln Leu Cys Lys Ser Glu Gln Arg Pro Ser  
210 215 220

Ser Leu Pro Val Gly Pro Val Leu Ala Thr Leu Gly His His Gln Thr  
225 230 235 240

Pro Thr Pro Asn Ser Thr Gly Ser Gly His Ser Pro Pro Ser Ser Ser  
245 250 255

Leu Thr Ser Pro Ser His Val Asn Leu Ser Pro Asn Thr Val Pro Glu  
260 265 270

Phe Ser Tyr Ser Ser Ser Glu Asp Glu Phe Tyr Asp Ala Asp Glu Phe  
275 280 285

His Gln Ser Gly Ser Ser Pro Lys Arg Leu Ile Asp Ser Ser Gly Ser  
290 295 300

Ala Ser Val Leu Thr His Ser Ser Ser Gly Asn Ser Leu Lys Arg Pro  
305 310 315 320

Asp Thr Thr Glu Ser Leu Asn Ser Ser Leu Ser Asn Gly Thr Ser Asp  
325 330 335

Ala Asp Leu Phe Asp Ser His Asp Asp Arg Asp Asp Asp Ala Glu Ala  
340 345 350

Gly Ser Val Glu Glu His Lys Ser Val Ile Met His Leu Leu Ser Gln  
355 360 365

Val Arg Leu Gly Met Asp Leu Thr Lys Val Val Leu Pro Thr Phe Ile  
370 375 380

Leu Glu Arg Arg Ser Leu Leu Glu Met Tyr Ala Asp Phe Phe Ala His  
385 390 395 400

Pro Asp Leu Phe Val Ser Ile Ser Asp Gln Lys Asp Pro Lys Asp Arg  
405 410 415

Met Val Gln Val Val Lys Trp Tyr Leu Ser Ala Phe His Ala Gly Arg

420

425

430

Lys Gly Ser Val Ala Lys Lys Pro Tyr Asn Pro Ile Leu Gly Glu Ile  
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Phe Gln Cys His Trp Thr Leu Pro Asn Asp Thr Glu Glu Asn Thr Glu  
 450 455 460

Leu Val Ser Glu Gly Pro Val Pro Trp Val Ser Lys Asn Ser Val Thr  
 465 470 475 480

Phe Val Ala Glu Gln Val Ser His His Pro Pro Ile Ser Ala Phe Tyr  
 485 490 495

Ala Glu Cys Phe Asn Lys Lys Ile Gln Phe Asn Ala His Ile Trp Thr  
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Lys Ser Lys Phe Leu Gly Met Ser Ile Gly Val His Asn Ile Gly Gln  
 515 520 525

Gly Cys Val Ser Cys Leu Asp Tyr Asp Glu His Tyr Ile Leu Thr Phe  
 530 535 540

Pro Asn Gly Tyr Gly Arg Ser Ile Leu Thr Val Pro Trp Val Glu Leu  
 545 550 555 560

Gly Gly Glu Cys Asn Ile Asn Cys Ser Lys Thr Gly Tyr Ser Ala Asn  
 565 570 575

Ile Ile Phe His Thr Lys Pro Phe Tyr Gly Gly Lys Lys His Arg Ile  
 580 585 590

Thr Ala Glu Ile Phe Ser Pro Asn Asp Lys Lys Ser Phe Cys Ser Ile  
 595 600 605

Glu Gly Glu Trp Asn Gly Val Met Tyr Ala Lys Tyr Ala Thr Gly Glu  
 610 615 620

Asn Thr Val Phe Val Asp Thr Lys Lys Leu Pro Ile Ile Lys Lys Lys  
 625 630 635 640

Val Arg Lys Leu Glu Asp Gln Asn Glu Tyr Glu Ser Arg Ser Leu Trp  
 645 650 655

Lys Asp Val Thr Phe Asn Leu Lys Ile Arg Asp Ile Asp Ala Ala Thr  
 660 665 670

Glu Ala Lys His Arg Leu Glu Glu Arg Gln Arg Ala Glu Ala Arg Glu  
675 680 685

Arg Lys Glu Lys Glu Ile Gln Trp Glu Thr Arg Leu Phe His Glu Asp  
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Ser Thr Ile Asn Pro Val Asp Ala Ile Tyr Gln Pro Ser Pro Leu Glu
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Pro Val Ile Ser Thr Met Pro Ser Gln Thr Val Leu Pro Pro Glu Pro  
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Val Gln Leu Cys Lys Ser Glu Gln Arg Pro Ser Ser Leu Pro Val Gly  
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Pro Val Leu Ala Thr Leu Gly His His Gln Thr Pro Thr Pro Asn Ser  
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Thr Gly Ser Gly His Ser Pro Pro Ser Ser Ser Leu Thr Ser Pro Ser  
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His Val Asn Leu Ser Pro Asn Thr Val Pro Glu Phe Ser Tyr Ser Ser  
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Ser Glu Asp Glu Phe Tyr Asp Ala Asp Glu Phe His Gln Ser Gly Ser  
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Ser Pro Lys Arg Leu Ile Asp Ser Ser Gly Ser Ala Ser Val Leu Thr  
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His Ser Ser Ser Gly Asn Ser Leu Lys Arg Pro Asp Thr Thr Glu Ser  
145 150 155 160

Leu Asn Ser Ser Leu Ser Asn Gly Thr Ser Asp Ala Asp Leu Phe Asp  
165 170 175

Ser His Asp Asp Arg Asp Asp Asp Ala Glu Ala Gly Ser Val Glu Glu  
180 185 190

His Lys Ser Val Ile Met His Leu Leu Ser Gln Val Arg Leu Gly Met  
195 200 205

Asp Leu Thr Lys Val Val Leu Pro Thr Phe Ile Leu Glu Arg Arg Ser  
210 215 220

Leu Leu Glu Met Tyr Ala Asp Phe Phe Ala His Pro Asp Leu Phe Val  
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Ser Ile Ser Asp Gln Lys Asp Pro Lys Asp Arg Met Val Gln Val Val  
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Lys Trp Tyr Leu Ser Ala Phe His Ala Gly Arg Lys Gly Ser Val Ala  
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Lys Lys Pro Tyr Asn Pro Ile Leu Gly Glu Ile Phe Gln Cys His Trp

275

280

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Thr Leu Pro Asn Asp Thr Glu Glu Asn Thr Glu Leu Val Ser Glu Gly  
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Pro Val Pro Trp Val Ser Lys Asn Ser Val Thr Phe Val Ala Glu Gln  
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Val Ser His His Pro Pro Ile Ser Ala Phe Tyr Ala Glu Cys Phe Asn  
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Lys Lys Ile Gln Phe Asn Ala His Ile Trp Thr Lys Ser Lys Phe Leu  
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Gly Met Ser Ile Gly Val His Asn Ile Gly Gln Gly Cys Val Ser Cys  
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Leu Asp Tyr Asp Glu His Tyr Ile Leu Thr Phe Pro Asn Gly Tyr Gly  
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Arg Ser Ile Leu Thr Val Pro Trp Val Glu Leu Gly Gly Glu Cys Asn  
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Ile Asn Cys Ser Lys Thr Gly Tyr Ser Ala Asn Ile Ile Phe His Thr  
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Lys Pro Phe Tyr Gly Gly Lys Lys His Arg Ile Thr Ala Glu Ile Phe  
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Ser Pro Asn Asp Lys Lys Ser Phe Cys Ser Ile Glu Gly Glu Trp Asn  
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Gly Val Met Tyr Ala Lys Tyr Ala Thr Gly Glu Asn Thr Val Phe Val  
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Asp Thr Lys Lys Leu Pro Ile Ile Lys Lys Lys Val Arg Lys Leu Glu  
465 470 475 480

Asp Gln Asn Glu Tyr Glu Ser Arg Ser Leu Trp Lys Asp Val Thr Phe  
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Asn Leu Lys Ile Arg Asp Ile Asp Ala Ala Thr Glu Ala Lys His Arg  
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Leu Glu Glu Arg Gln Arg Ala Glu Ala Arg Glu Arg Lys Glu Lys Glu  
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Ile Gln Trp Glu Thr Arg Leu Phe His Glu Asp Gly Glu Cys Trp Val  
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